## IN THE CLAIMS

- 1-41 (canceled)
- 42. (Original) A method for selecting advantageous growth conditions for embryo development comprising:
- a) determining RNA expression profiles for staged embryos under control culture conditions;
  - b) altering culture conditions;
- c) determining RNA expression profiles for staged embryos under altered culture conditions; and
  - d) correlating culture change to developmental effect in embryo.
- 43. (Original) The method of claim 42, wherein conditions are selected which produce RNA expression profiles most closely approximating late-stage embryo profiles.
- 44. (Original) The method of claim 42, wherein the culture conditions are altered by operatively linking one or more stage-specific embryo promoter(s) to one or more sense or antisense nucleic acid molecules.
- 45. (Currently amended) The method of claim 42, wherein the culture conditions are altered by operatively linking one more the stage-specific embryo promoter[[(s)]] selected from SEQ ID NO[[S]]: 328[[-334]] to one or more sense or antisense nucleic acid molecules.
- 46. (Original) The method of claim 42, wherein the change in expression profiles is correlated by a relational database.
- 47-61 (canceled)